

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-022978

(43)Date of publication of application : 21.01.2000

(51)Int.Cl.

H04N 1/60  
G06T 5/00  
H04N 1/46

(21)Application number : 10-201319

(71)Applicant : RICOH CO LTD

(22)Date of filing : 01.07.1998

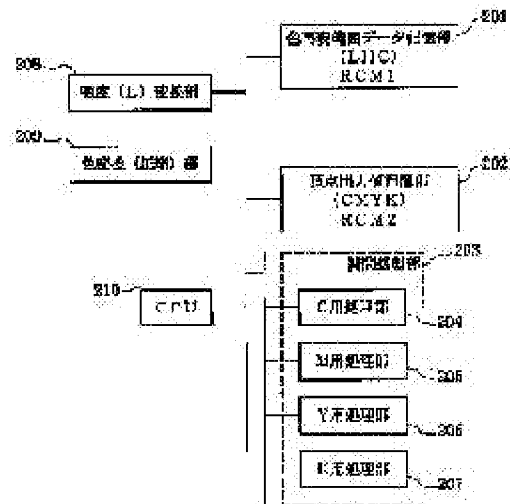
(72)Inventor : KOMATSU MANABU  
SUZUKI HIROAKI

## (54) COLOR CORRECTING DEVICE

(57)Abstract:

**PROBLEM TO BE SOLVED:** To execute color corrections including the collapse of high-saturation and less-disorder color reproduction ranges as to color conversion between color image output devices different in color reproduction ranges.

**SOLUTION:** This device is equipped with a lightness conversion part 208 that performs a lightness converting process for matching a lightness range relatively and a color conversion part 209 that compresses a color which can not be reproduced even by performing the lightness converting process to a color within a color reproduction range by controlling the direction of compression by each color phase according to the while the lightness after the lightness converting process is used as a reference corresponding to the maximum saturation of each color phase of the image output device being the tangent of the color matching on the basis of the lightness. Further, a color which can not be reproduced even by matching the lightness range relatively and performing the lightness converting process is compressed to a color within the color reproduction range by controlling the direction of compression by each color phase according to the lightness while the lightness after the lightness converting process is used as a reference corresponding to the maximum saturation of each color phase of both image output devices to



be color-matched to execute color correction including preferable correspondence within the color reproduction range.